

# WLAN Antenna Information

## IdeaPad Tablet P1

### [Wistron NeWeb Corp.antenna]

<b>Platform</b>	
Platform owner	Lenovo(China) Limited
Platform name	Ideapad Tablet P1
Regulatory Model name (Compliance ID)	Ideapad Tablet P1
ODM	Wistron
Target Launch Date	2011/XX/XX
<b>Antenna</b>	
Brand name	Wistron NeWeb Corp.
Parts Number	Main Antenna: 25.90A5I.001
	Auxiliary Antenna: 25.90A5J.001

#### Revision history

Revision number	Date	Description
1	03/21/2011	Initial release

## Section 1. Antenna Assembly Specifications

### Antenna Assembly Summary:

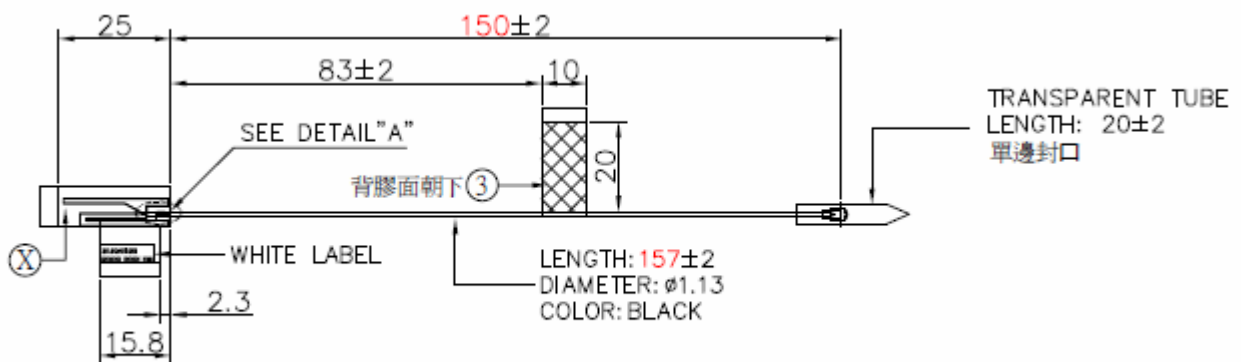
1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E		
				Frequency band (MHz)	Peak gain with cable loss (dBi)	cable loss (dB)
(P/N: 25.90A5I.001)  Main antenna	Wistron Neweb Corporation	PIFA	50 ohm Coaxial.  length: 150mm diameter: 1.13mm Connector: Ipex	2400-2500	1.03	-1.85
				5150-5350	1.75	-2.62
				5470-5725	1.51	-2.68
				5725-5850	0.54	-2.72
(P/N: 25.90A5J.001)  Auxiliary antenna	Wistron Neweb Corporation	PIFA	50 ohm Coaxial.  length: 97mm diameter: 1.13mm Connector: Ipex	2400-2500	0.52	-1.84
				5150-5350	-1.61	-2.60
				5470-5725	-0.07	-2.66
				5725-5850	-2.05	-2.70

### Antenna Peak Gain Table:

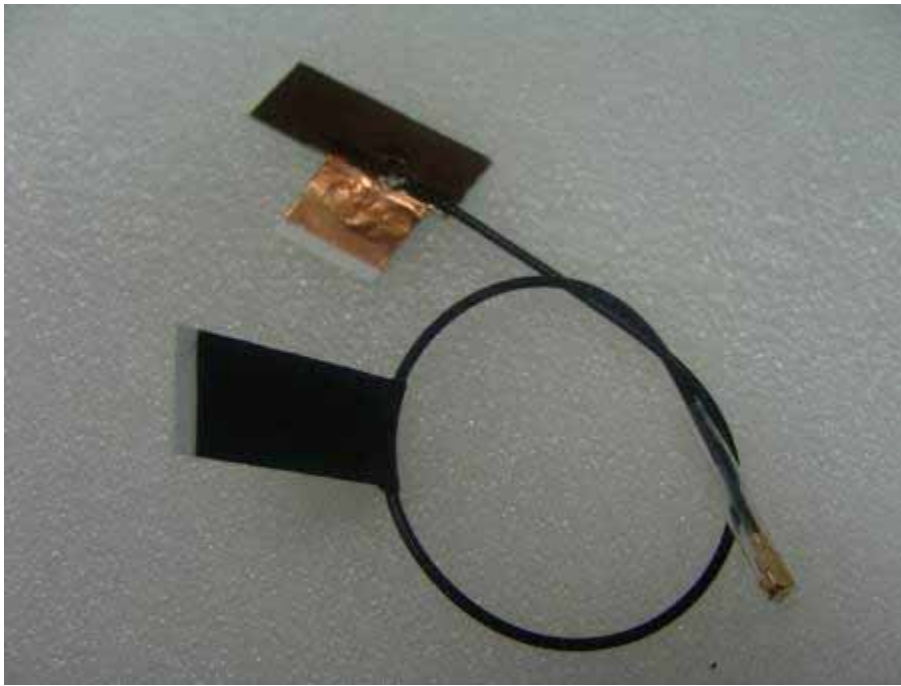
Frequency (MHz)	Main Antenna		Aux Antenna	
	Horizontal (dBi)	Vertical (dBi)	Horizontal (dBi)	Vertical (dBi)
2400	0.39	-0.41	-3.32	-2.66
2450	0.45	-0.30	-1.18	-2.11
2500	1.03	-0.73	0.52	-0.04
5150	0.81	-4.97	-1.61	-2.93
5250	1.68	-4.67	-2.43	-2.56
5350	1.75	-3.96	-2.67	-2.75
5470	1.51	-3.82	-1.49	-2.35
5600	1.15	-4.27	-0.07	-2.07
5725	-0.19	-3.55	-3.52	-2.05
5725	-0.19	-3.55	-3.52	-2.05
5785	0.54	-3.30	-3.27	-2.13
5850	0.35	-3.21	-3.19	-2.09

## Section 2. Dimensioned Photos or Drawings of Antennas

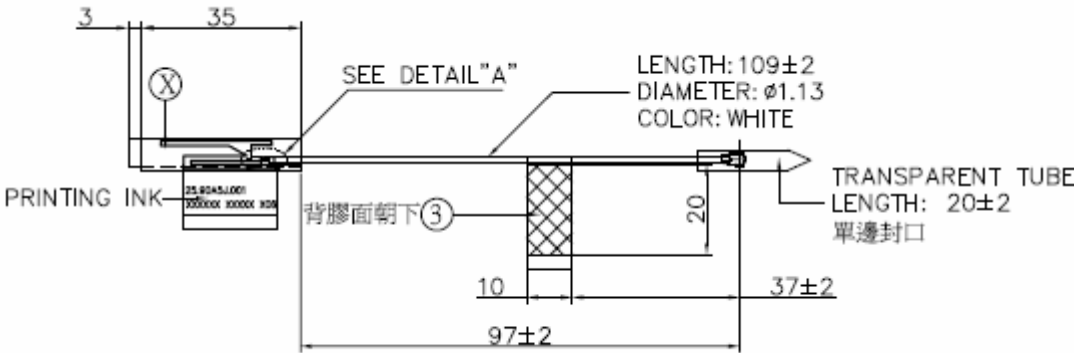
### Main Antenna Dimensioned Drawing:



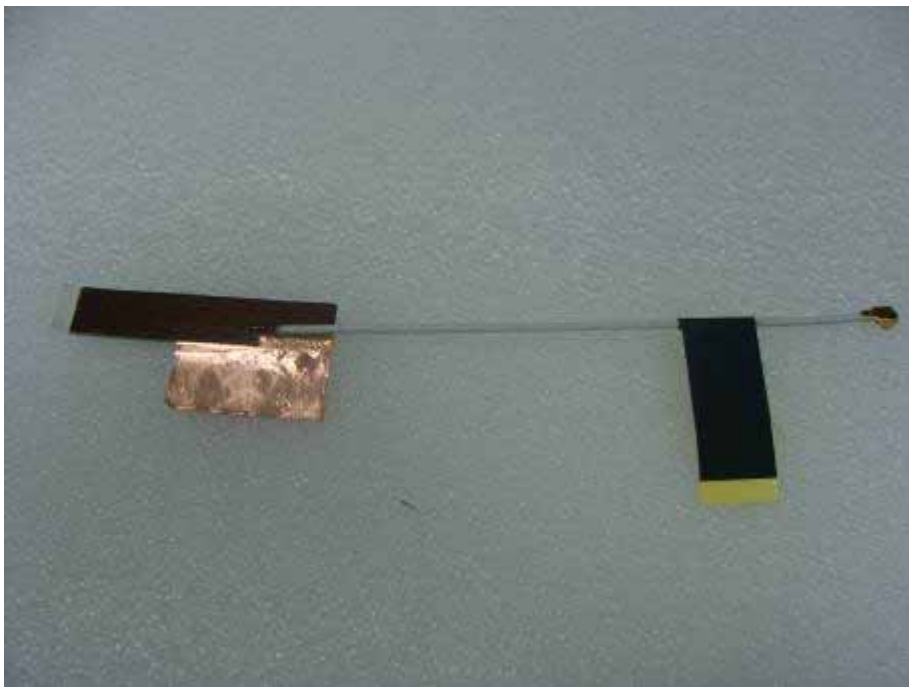
### Main Antenna Photo:



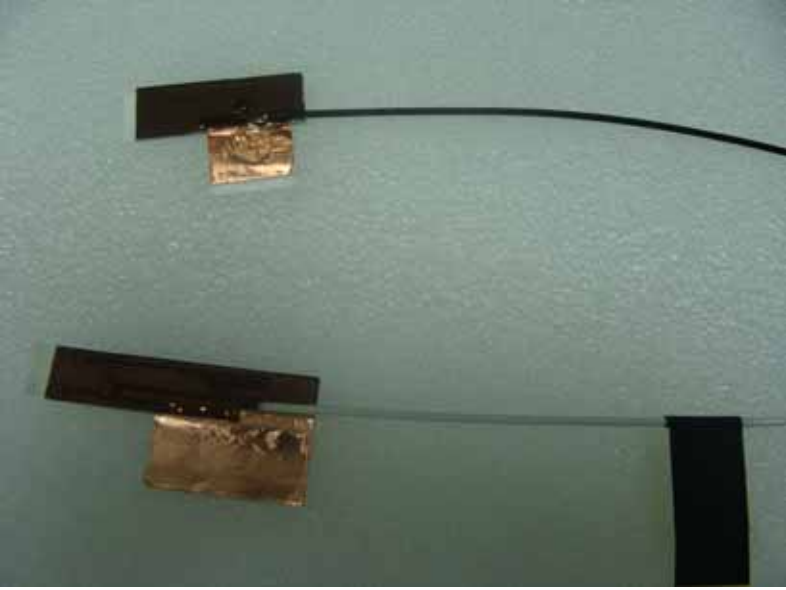
**Aux Antenna Dimensioned Drawing:**



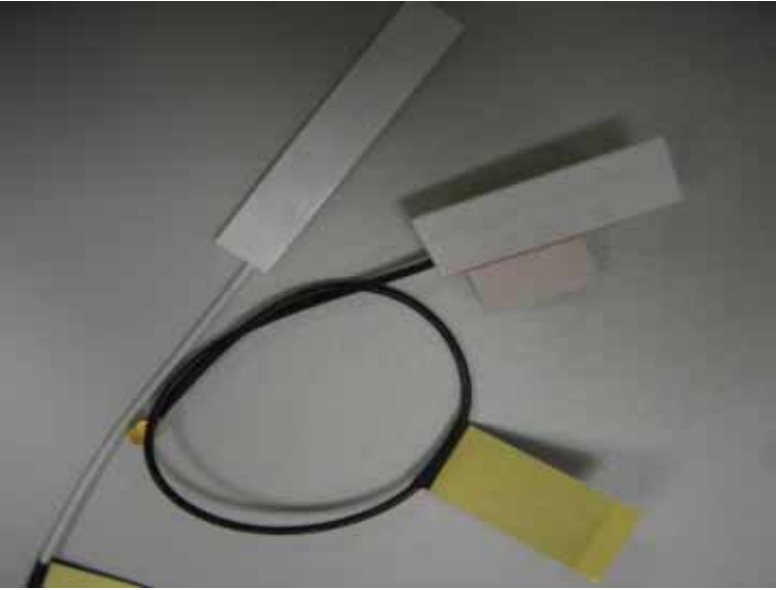
**Aux Antenna Photo:**



Trade Name: Wistron Neweb Corporation  
Model No.: 25.90A5I.001 (Main)  
25.90A5J.001(Aux)

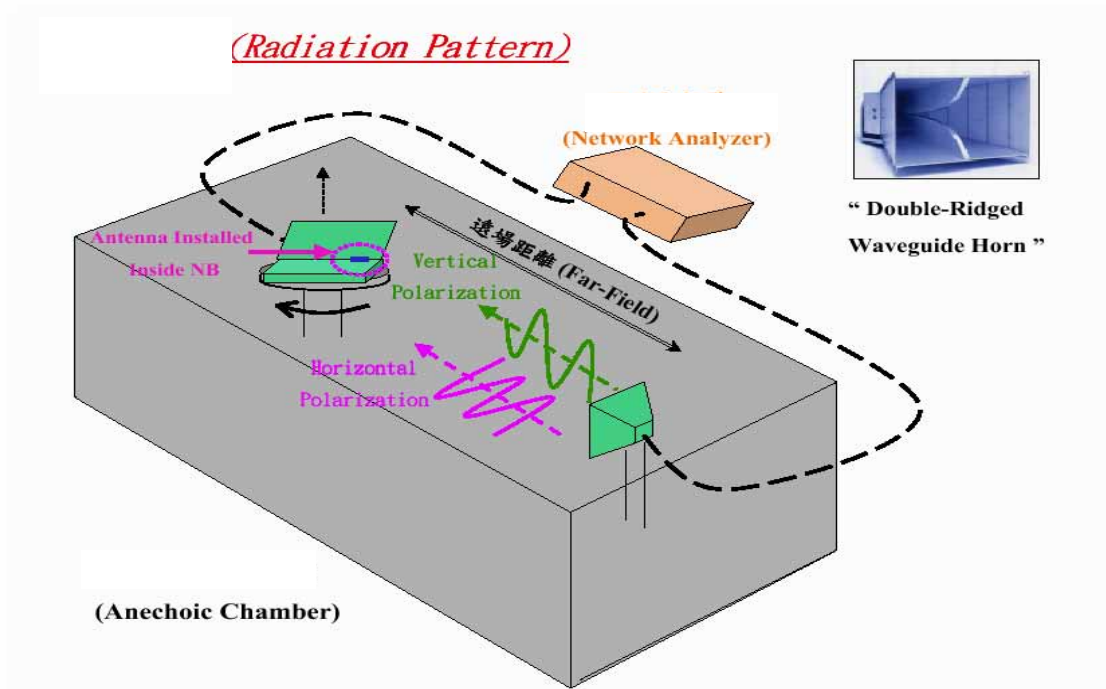


Trade Name: Wistron Neweb Corporation  
Model No.: 25.90A5I.001 (Main)  
25.90A5J.001(Aux)



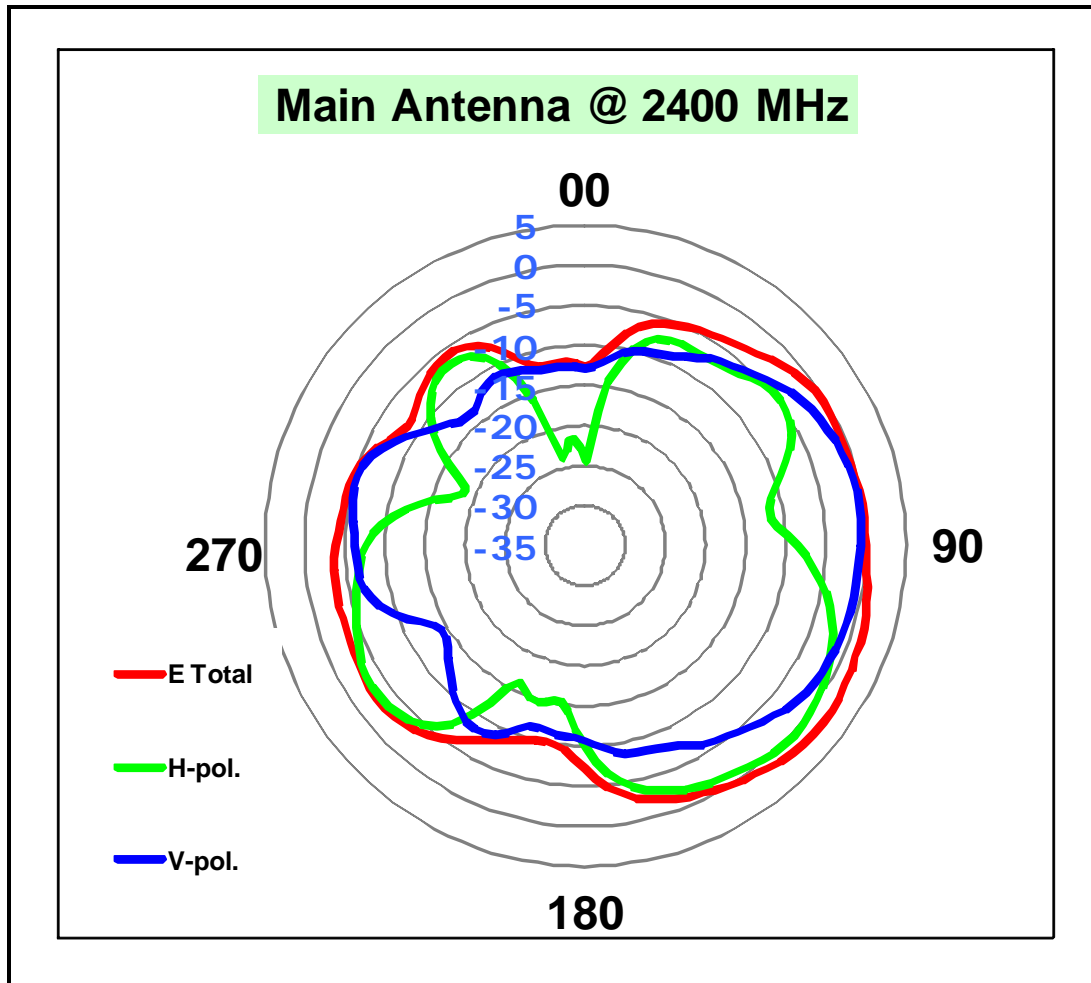
## Section 3. Radiation characteristics of antennae Loaded in Host Platform

### Antenna Gain Measuring Facility



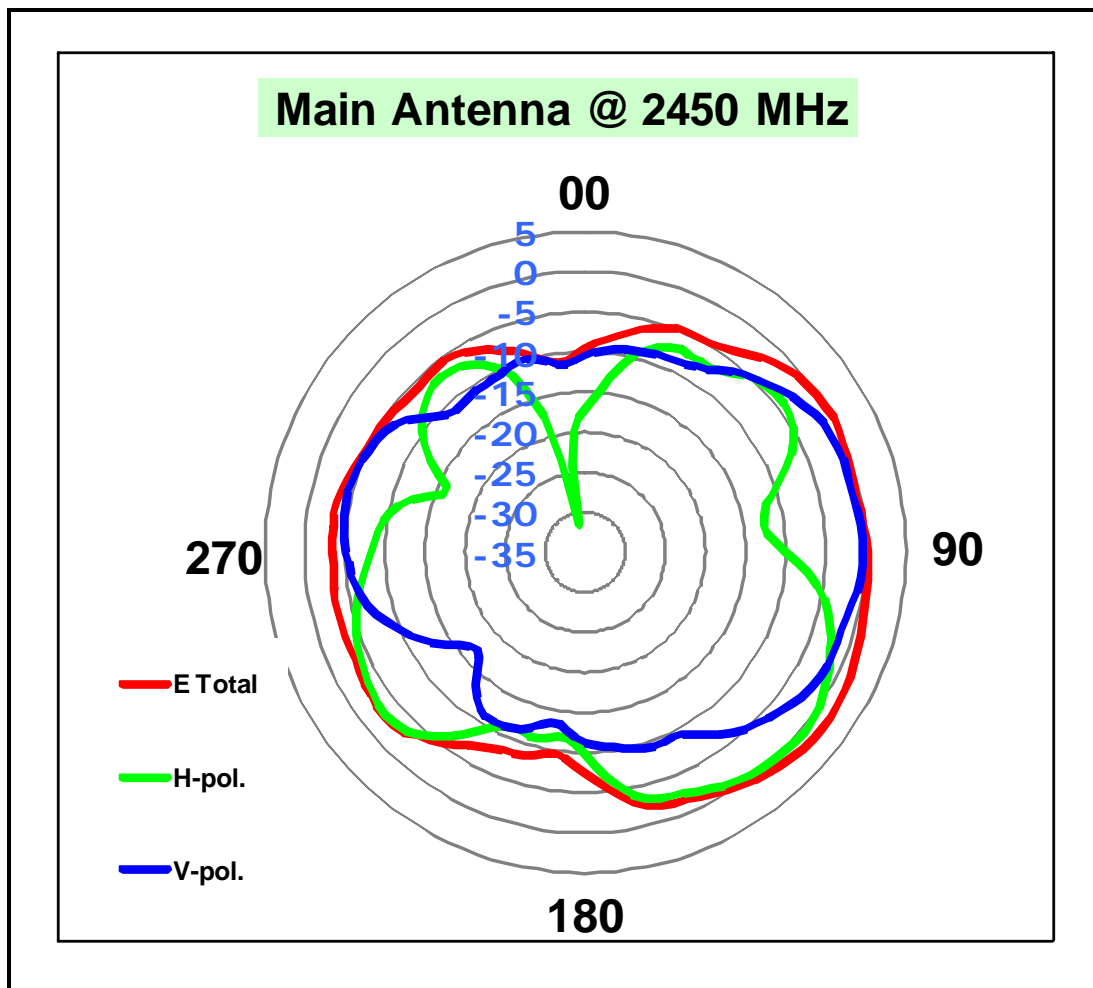
2400-2500MHz radiation characteristic

Main antenna: 2400 MHz



Horizontal peak	0.39 dBi	148 deg
Vertical peak	-0.41 dBi	84 deg

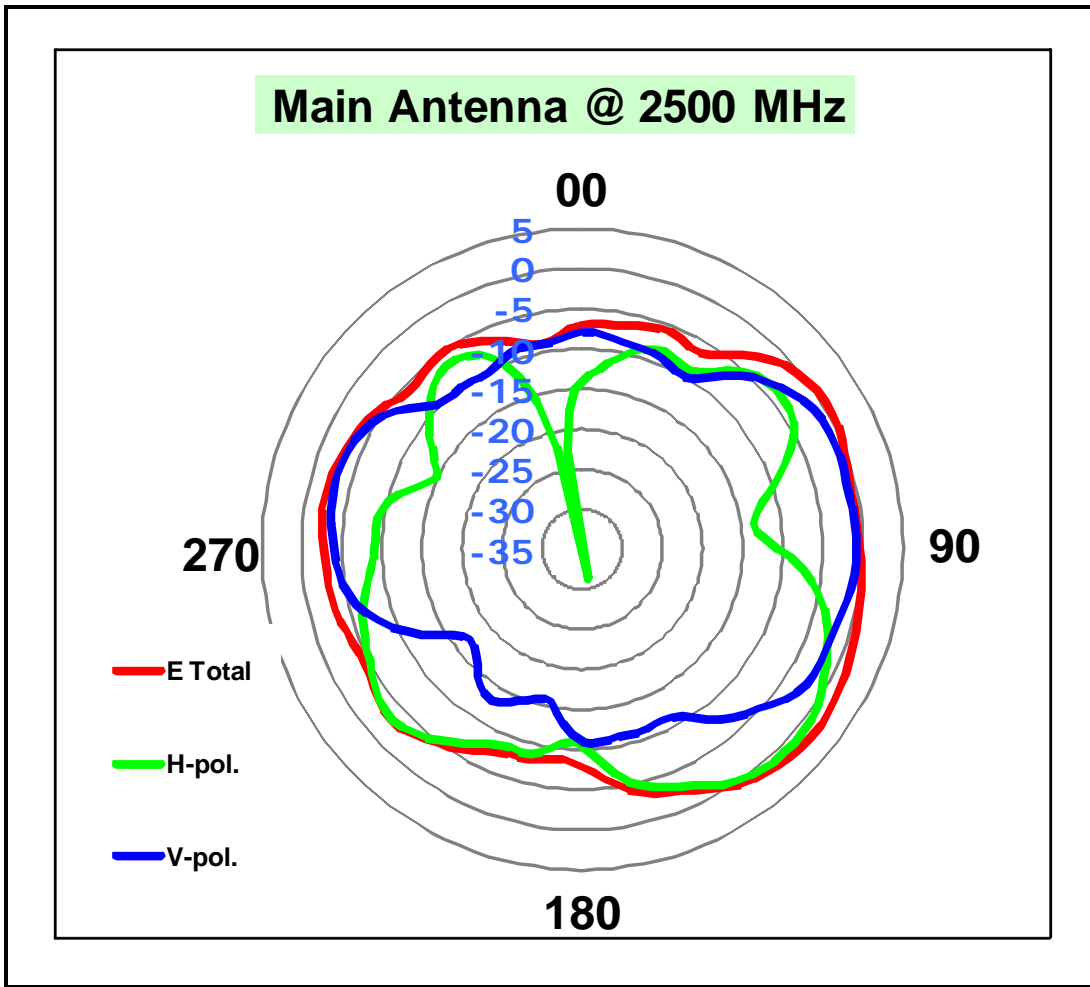
Main antenna: 2450 MHz



Horizontal peak	0.45 dBi	149 deg
Vertical peak	-0.30 dBi	87 deg

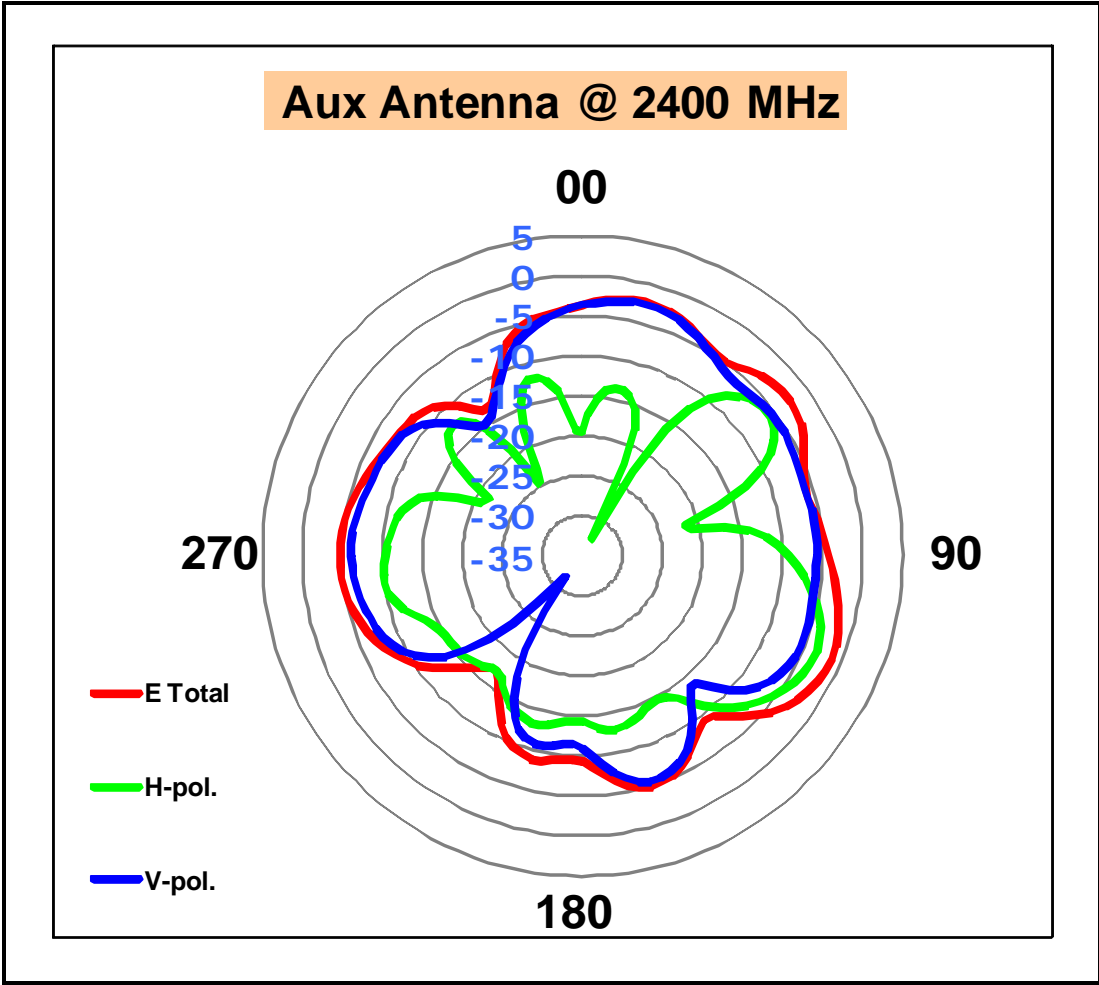


Main antenna: 2500 MHz



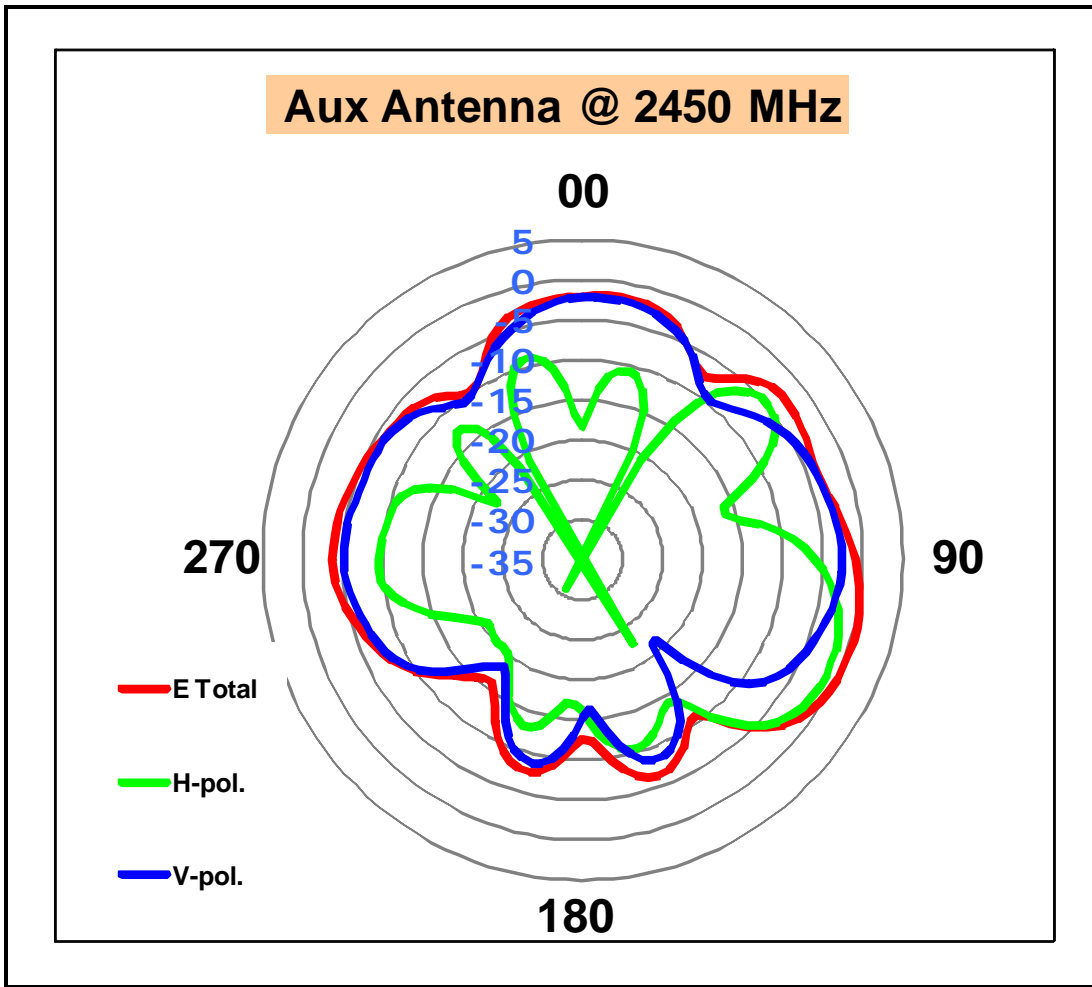
Horizontal peak	1.03 dBi	149 deg
Vertical peak	-0.73 dBi	88 deg

Auxiliary antenna: 2400 MHz



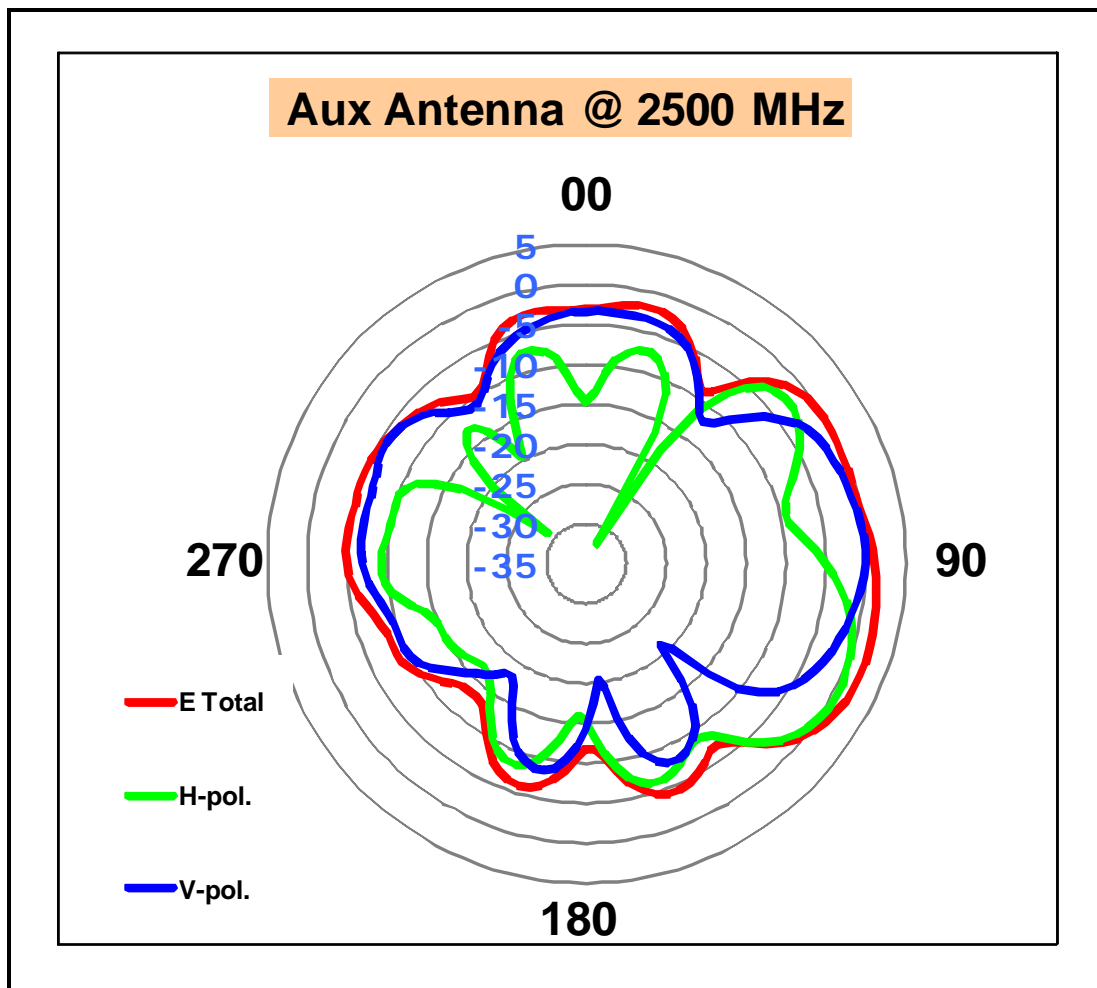
Horizontal peak	-3.32 dBi	131 deg
Vertical peak	-2.66 dBi	166 deg

Auxiliary antenna: 2450 MHz



Horizontal peak	-1.18 dBi	136 deg
Vertical peak	-2.11 dBi	94 deg

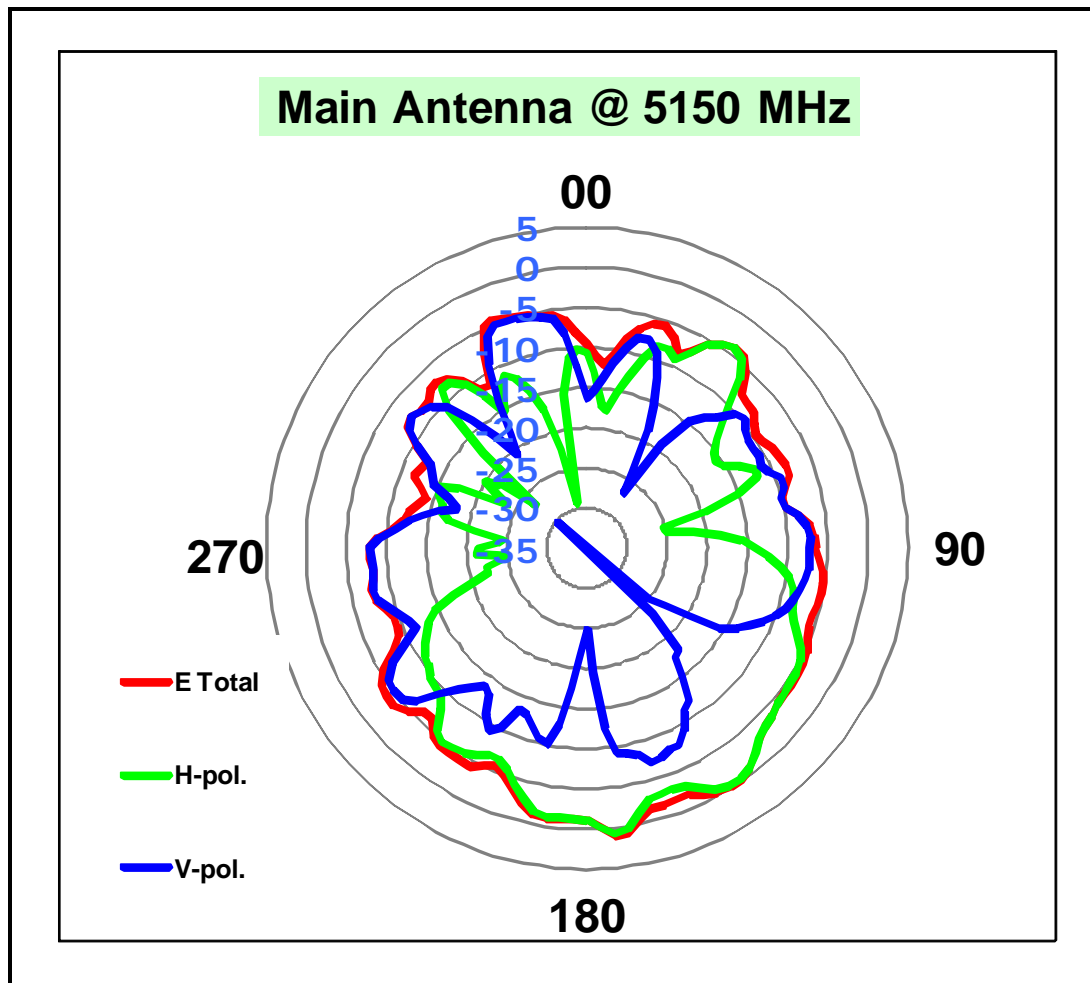
Auxiliary antenna: 2500 MHz



Horizontal peak	0.52 dBi	141 deg
Vertical peak	-0.04 dBi	87 deg

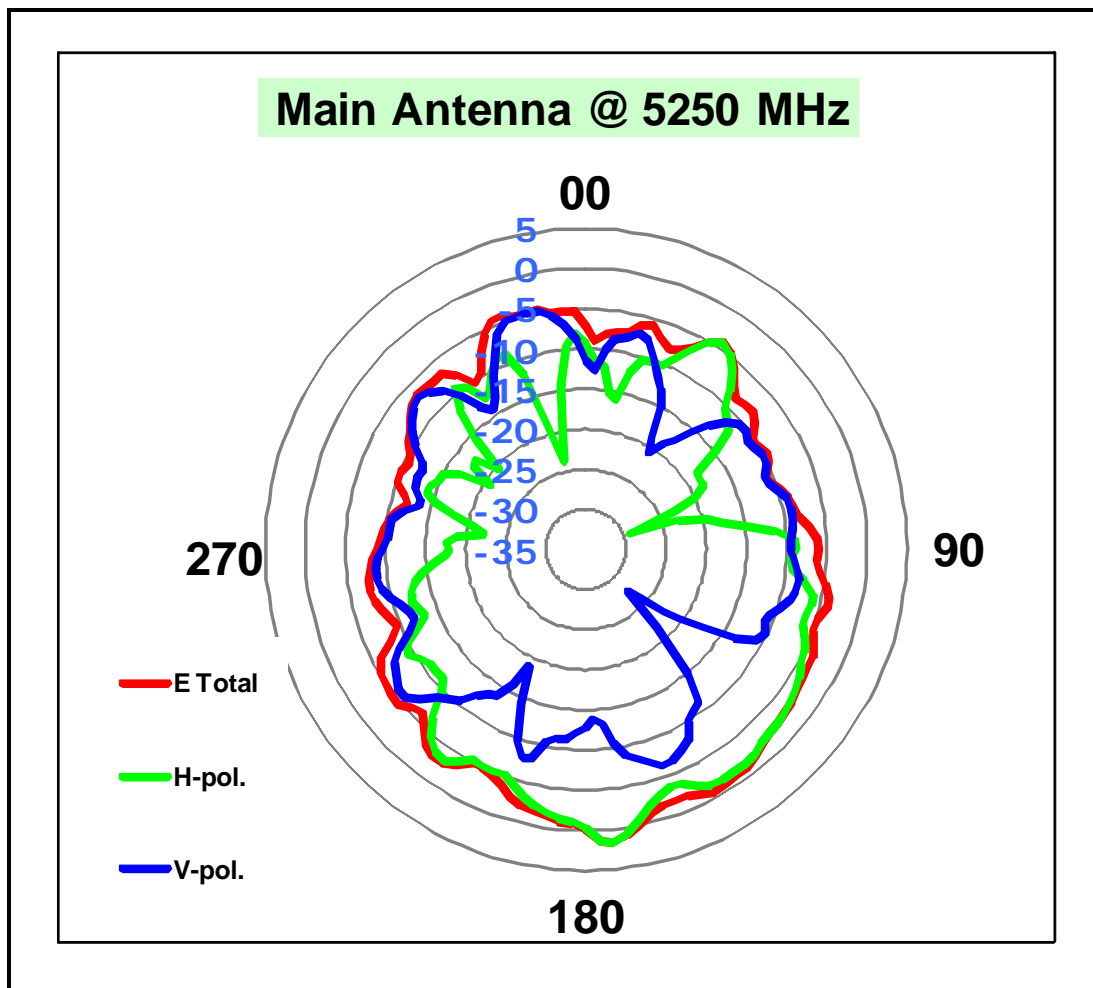
## 5150-5350 MHz radiation characteristic

Main antenna: 5150 MHz



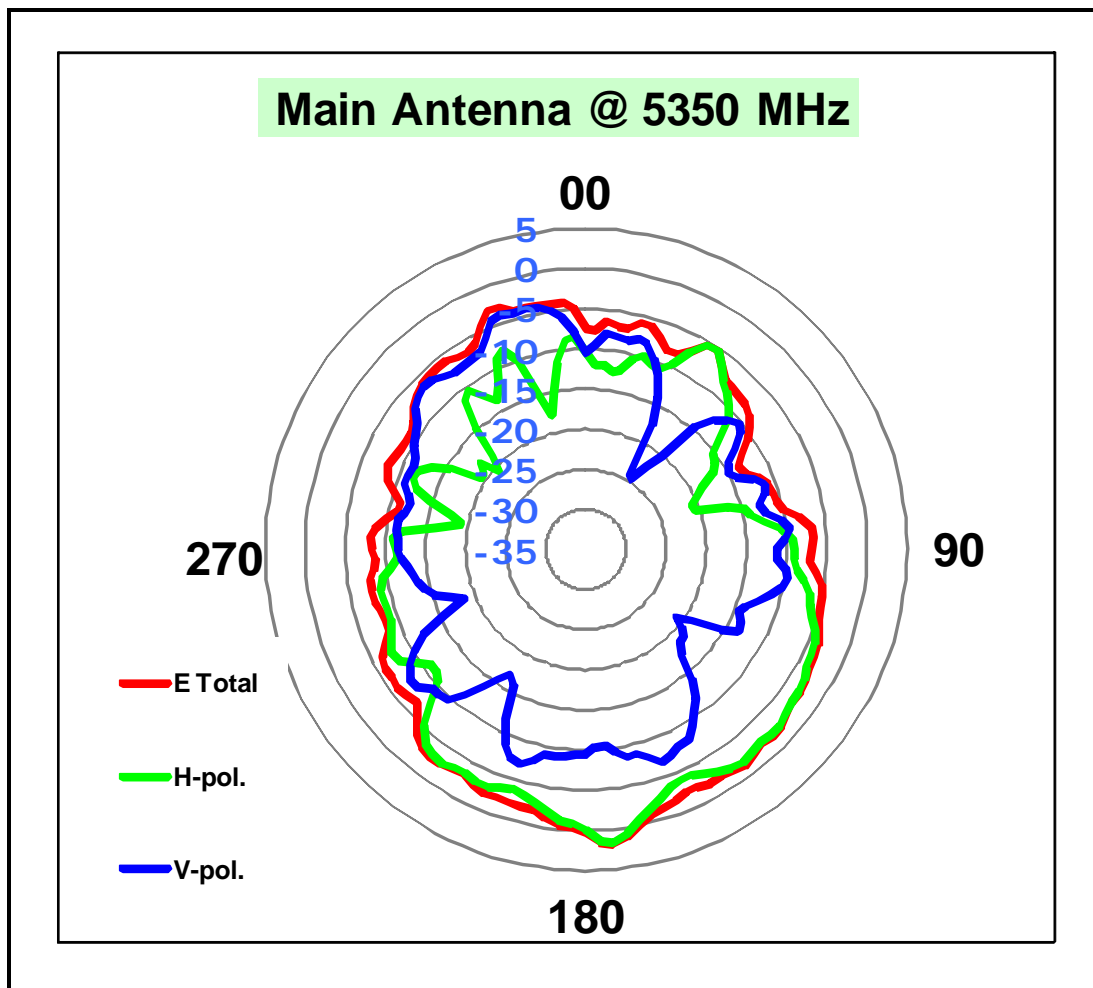
Horizontal peak	0.81 dBi	176 deg
Vertical peak	-4.97 dBi	253 deg

Main antenna: 5250 MHz



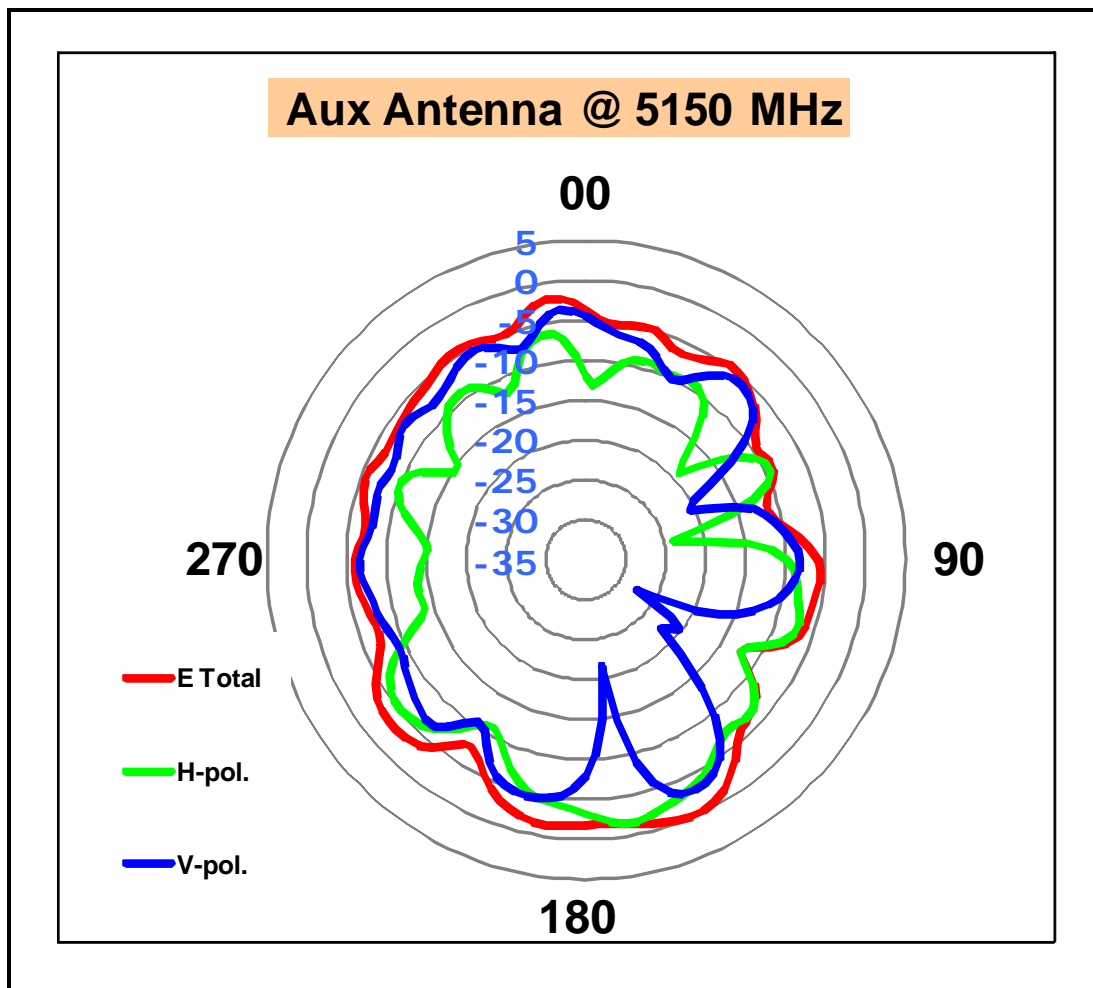
Horizontal peak	1.68 dBi	177 deg
Vertical peak	-4.67 dBi	351 deg

Main antenna: 5350 MHz



Horizontal peak	1.75 dBi	176 deg
Vertical peak	-3.96 dBi	354 deg

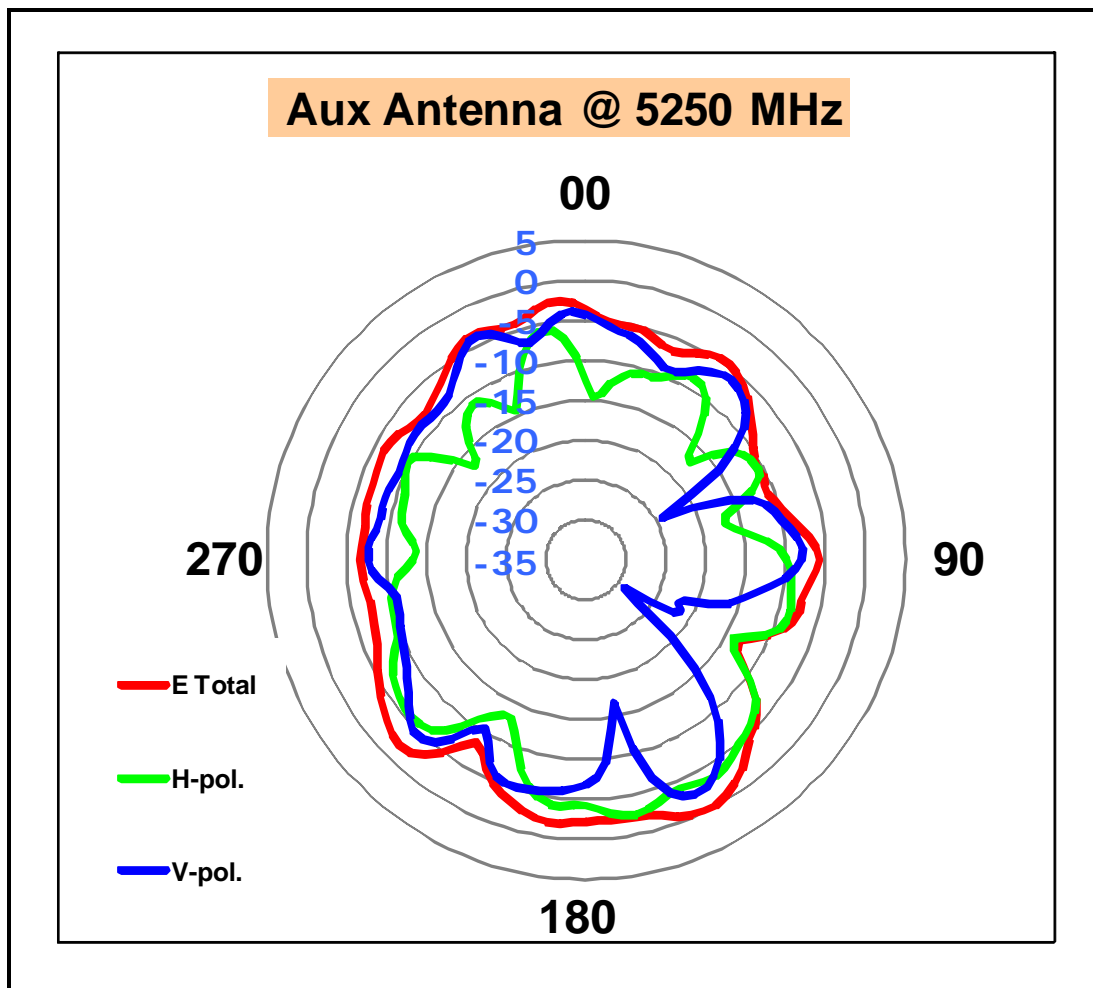
Auxiliary antenna: 5150 MHz



Horizontal peak	-1.61 dBi	172 deg
Vertical peak	-2.93 dBi	161 deg

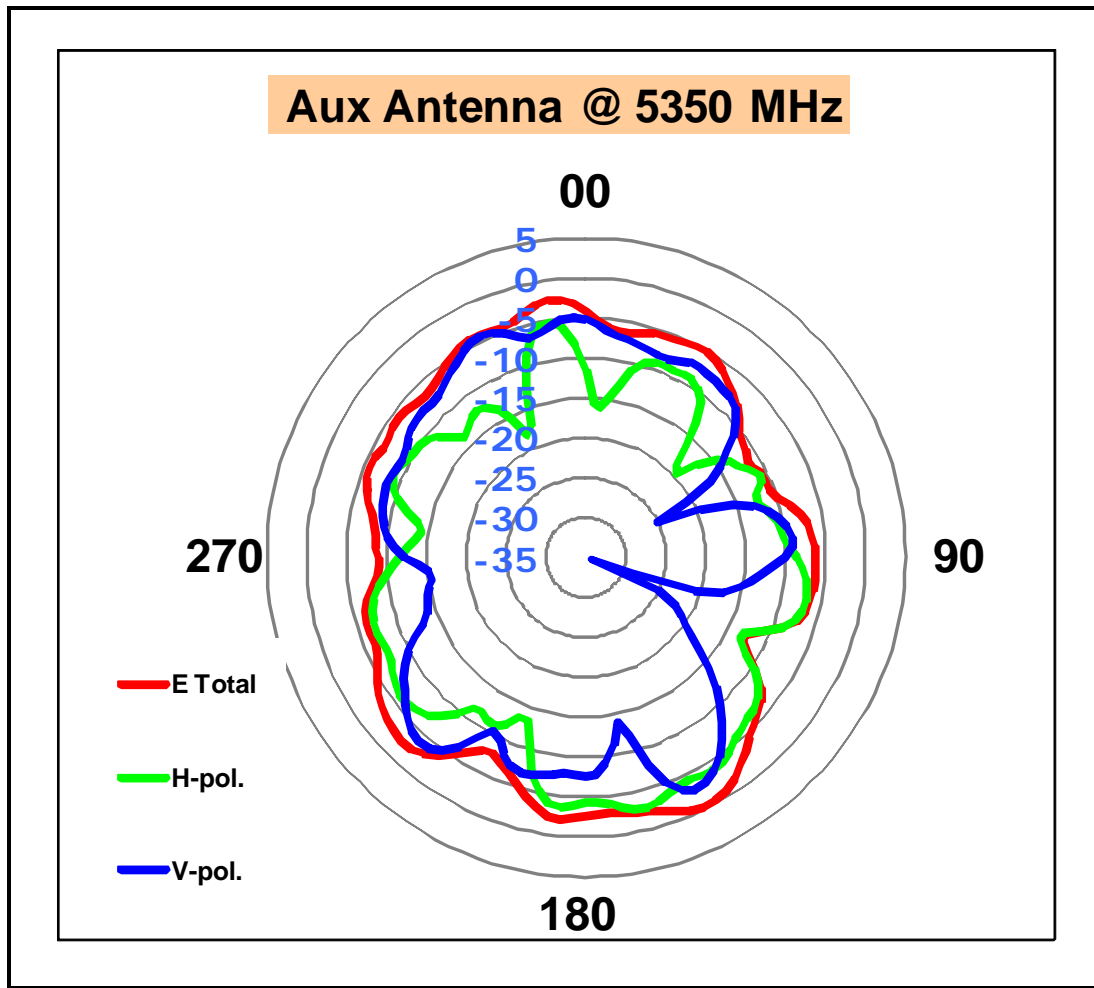


Auxiliary antenna: 5250 MHz



Horizontal peak	-2.43 dBi	173 deg
Vertical peak	-2.56 dBi	158 deg

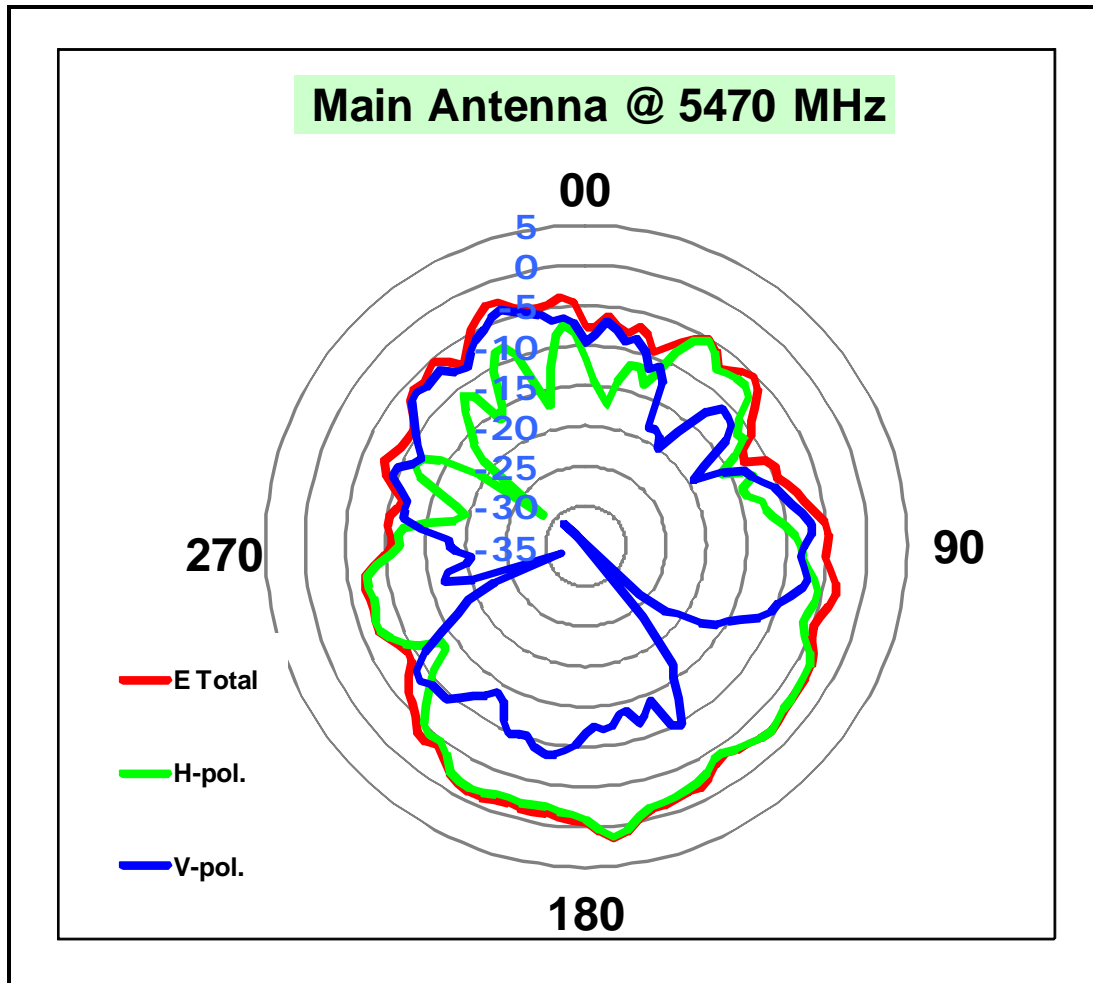
Auxiliary antenna: 5350 MHz



Horizontal peak	-2.67 dBi	175 deg
Vertical peak	-2.75 dBi	153 deg

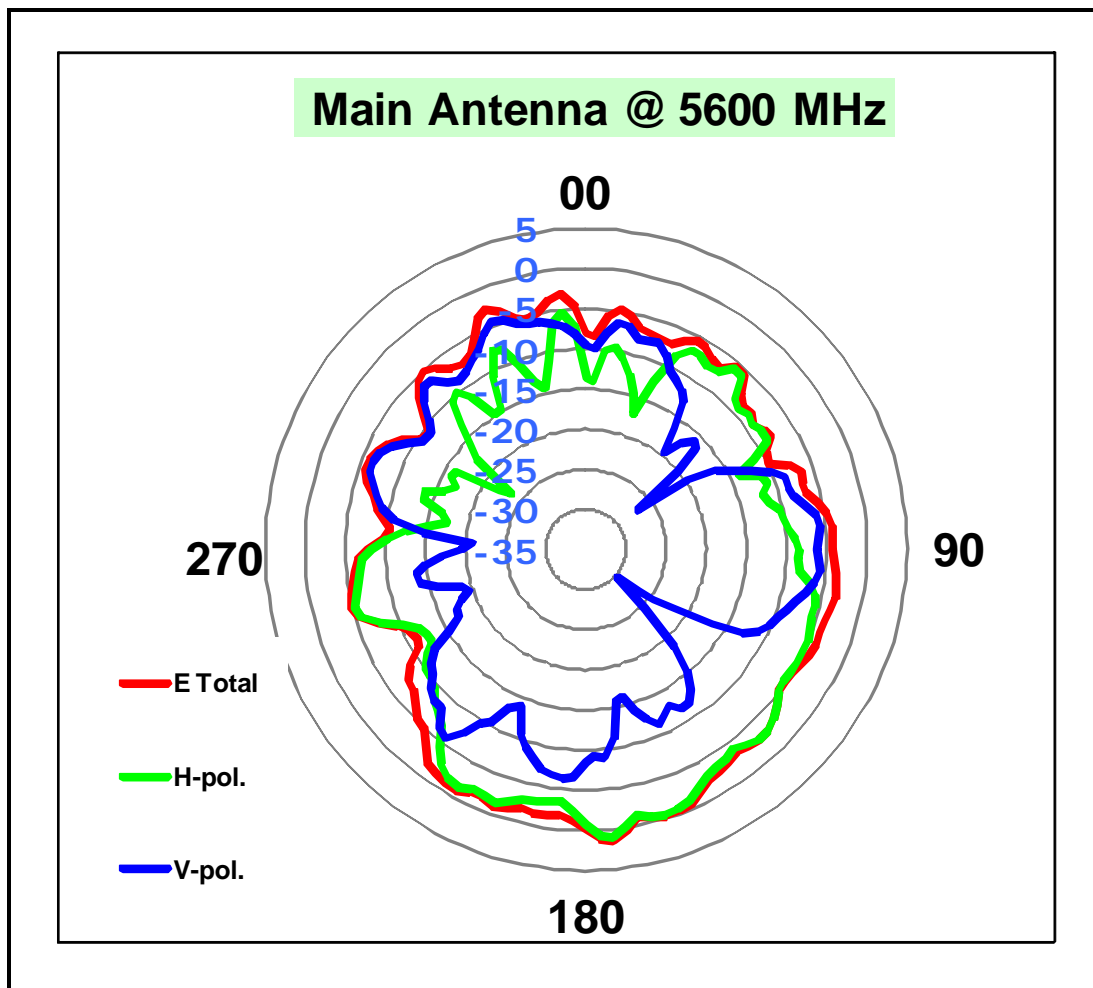
5470-5725MHz radiation characteristic

Main antenna: 5470 MHz



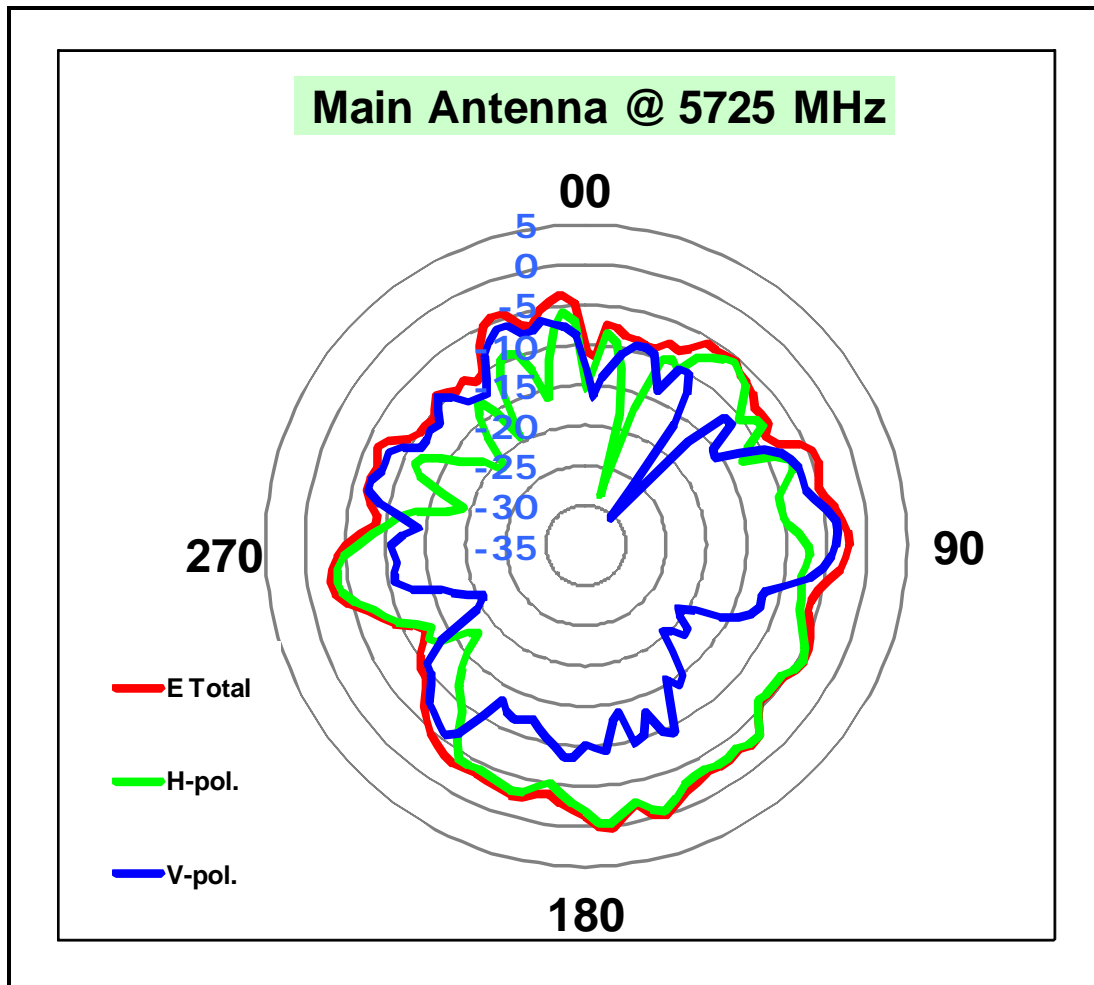
Horizontal peak	1.51 dBi	178 deg
Vertical peak	-3.82 dBi	361 deg

Main antenna: 5600 MHz



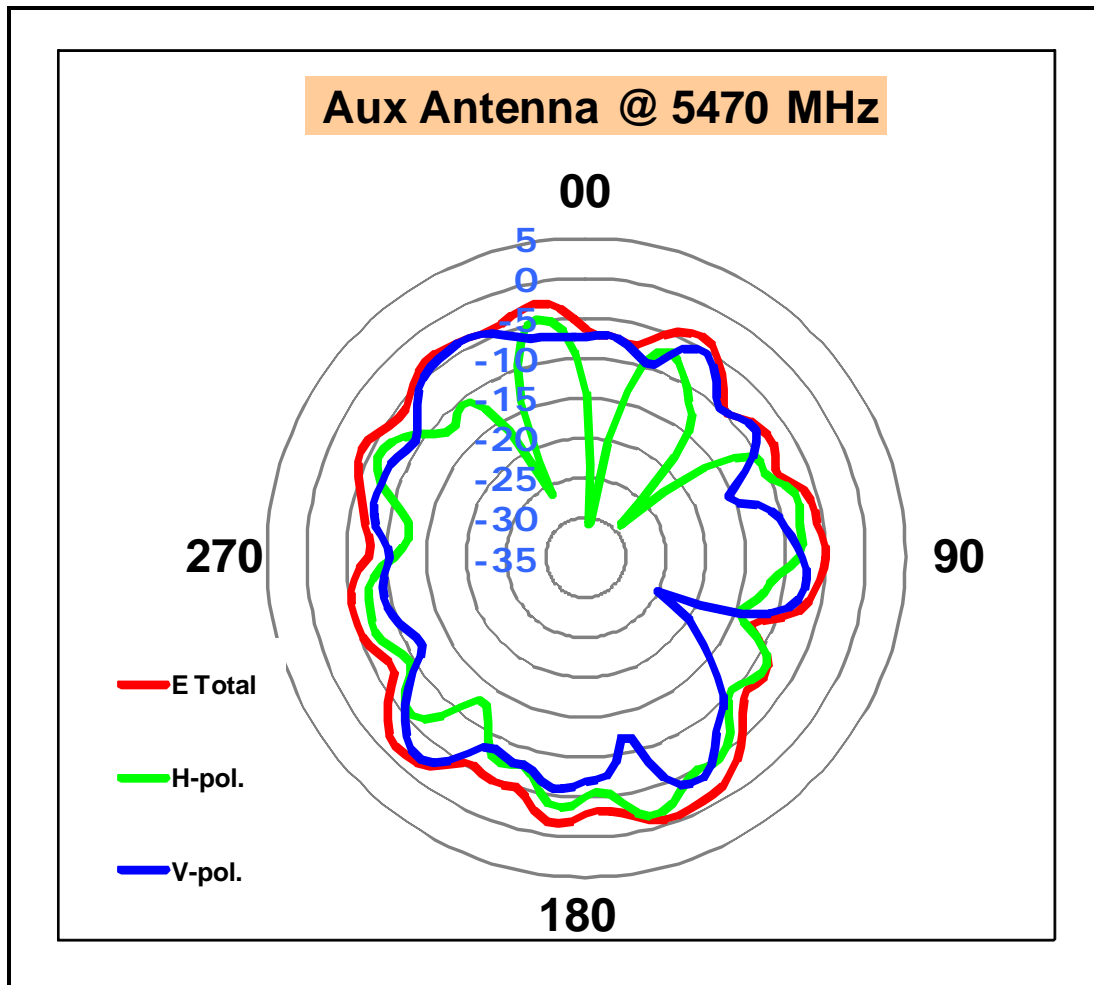
Horizontal peak	1.15 dBi	179 deg
Vertical peak	-4.27 dBi	354 deg

Main antenna: 5725 MHz



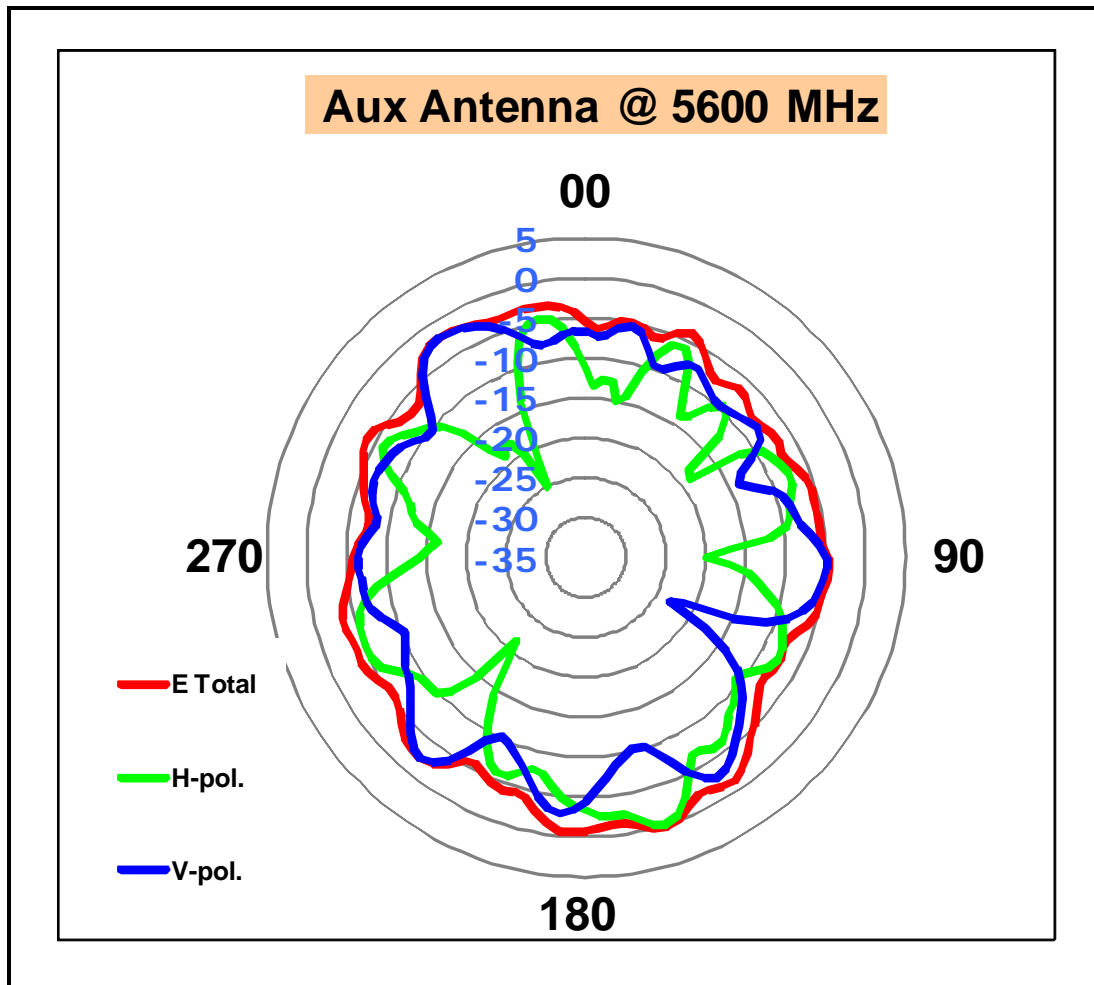
Horizontal peak	-0.19 dBi	178 deg
Vertical peak	-3.55 dBi	88 deg

Auxiliary antenna: 5470 MHz



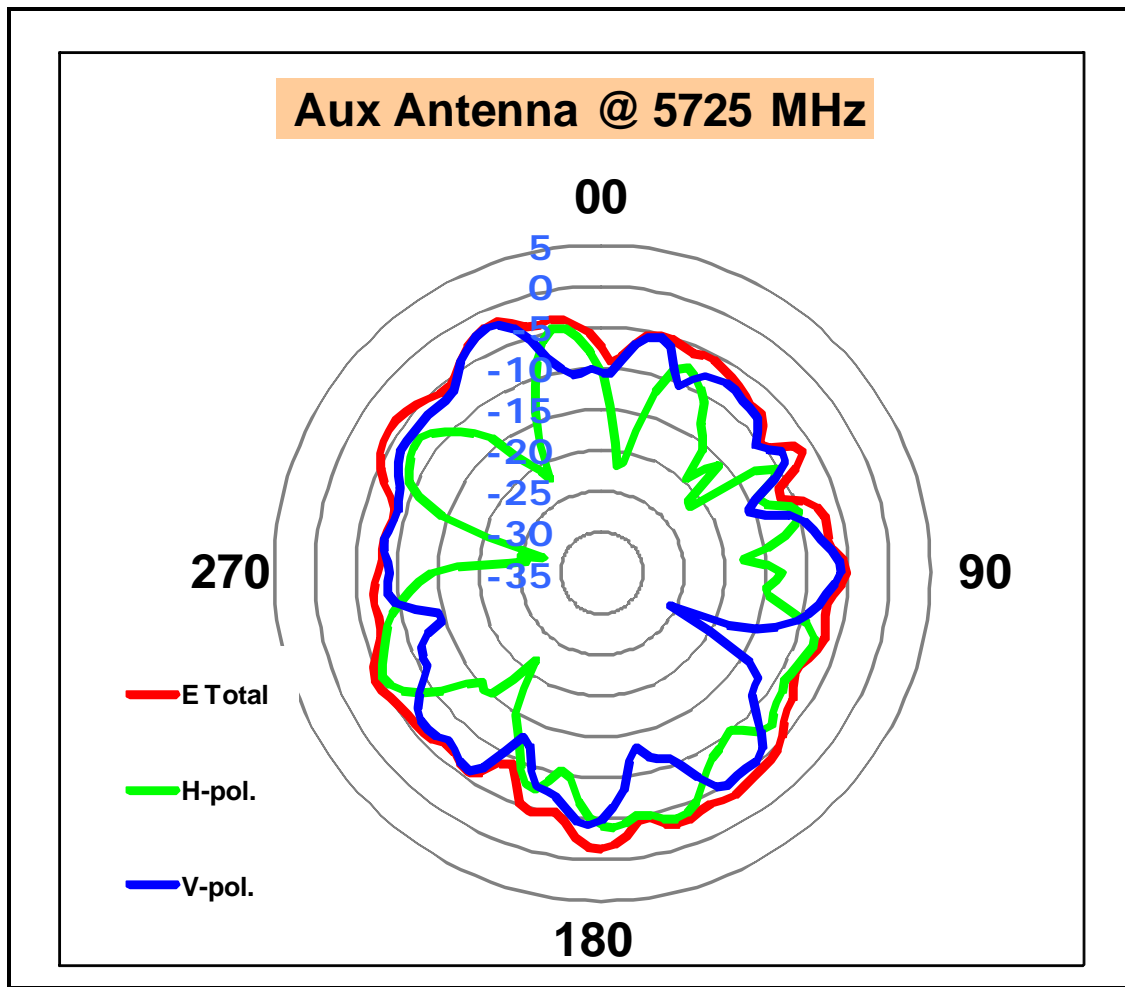
Horizontal peak	-1.49 dBi	167 deg
Vertical peak	-2.35 dBi	224 deg

Auxiliary antenna: 5600 MHz



Horizontal peak	-0.07 dBi	166 deg
Vertical peak	-2.07 dBi	334 deg

Auxiliary antenna: 5725 MHz

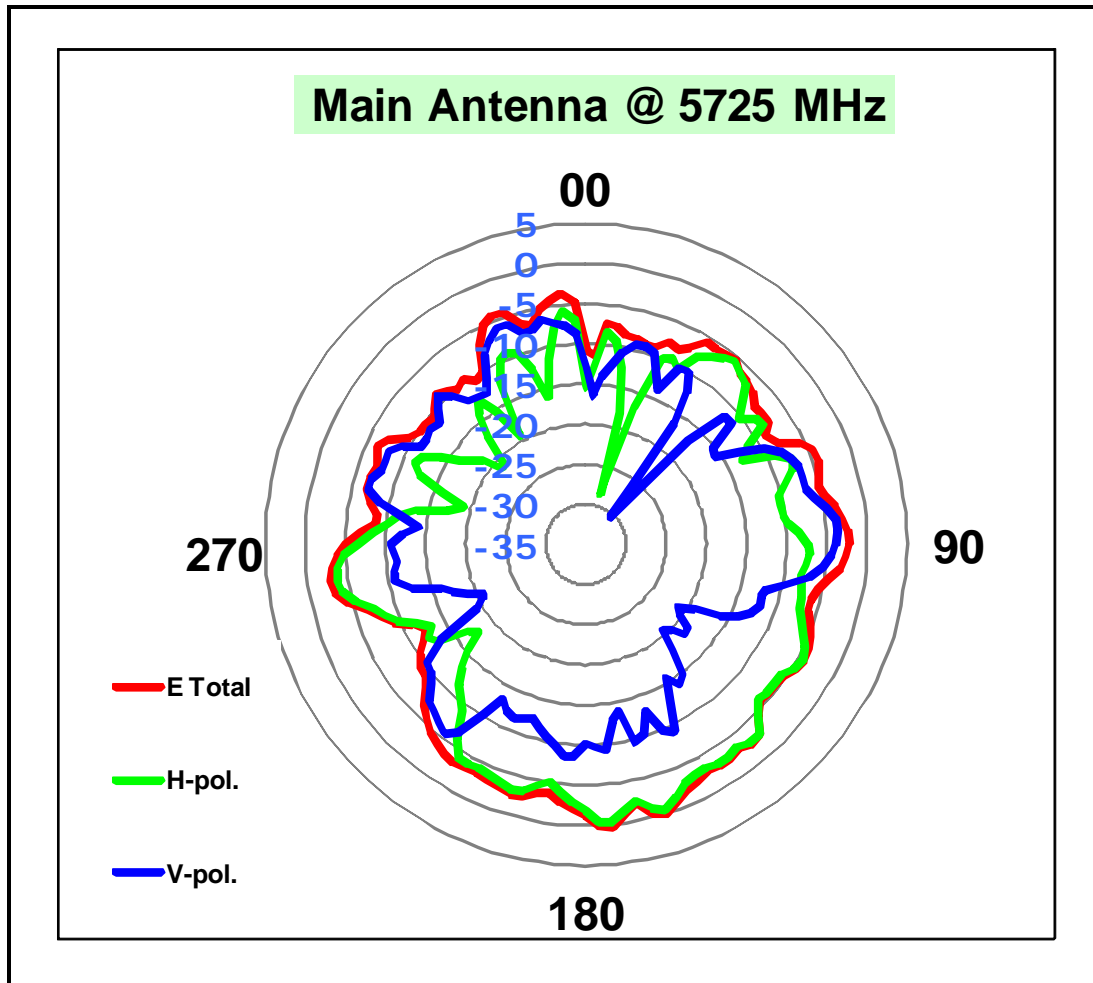


Horizontal peak	-3.52 dBi	165 deg
Vertical peak	-2.05 dBi	342 deg



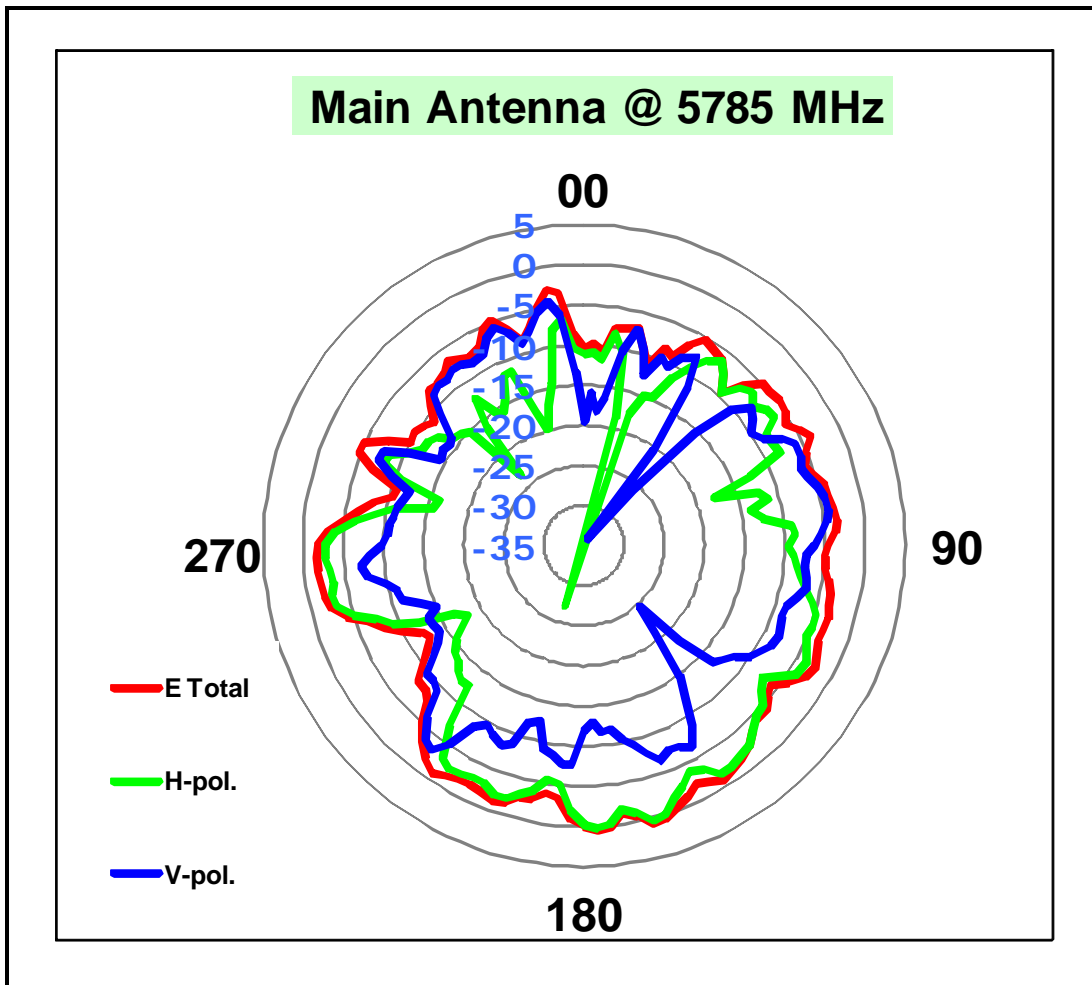
5725-5850 MHz radiation characteristic

Main antenna: 5725 MHz



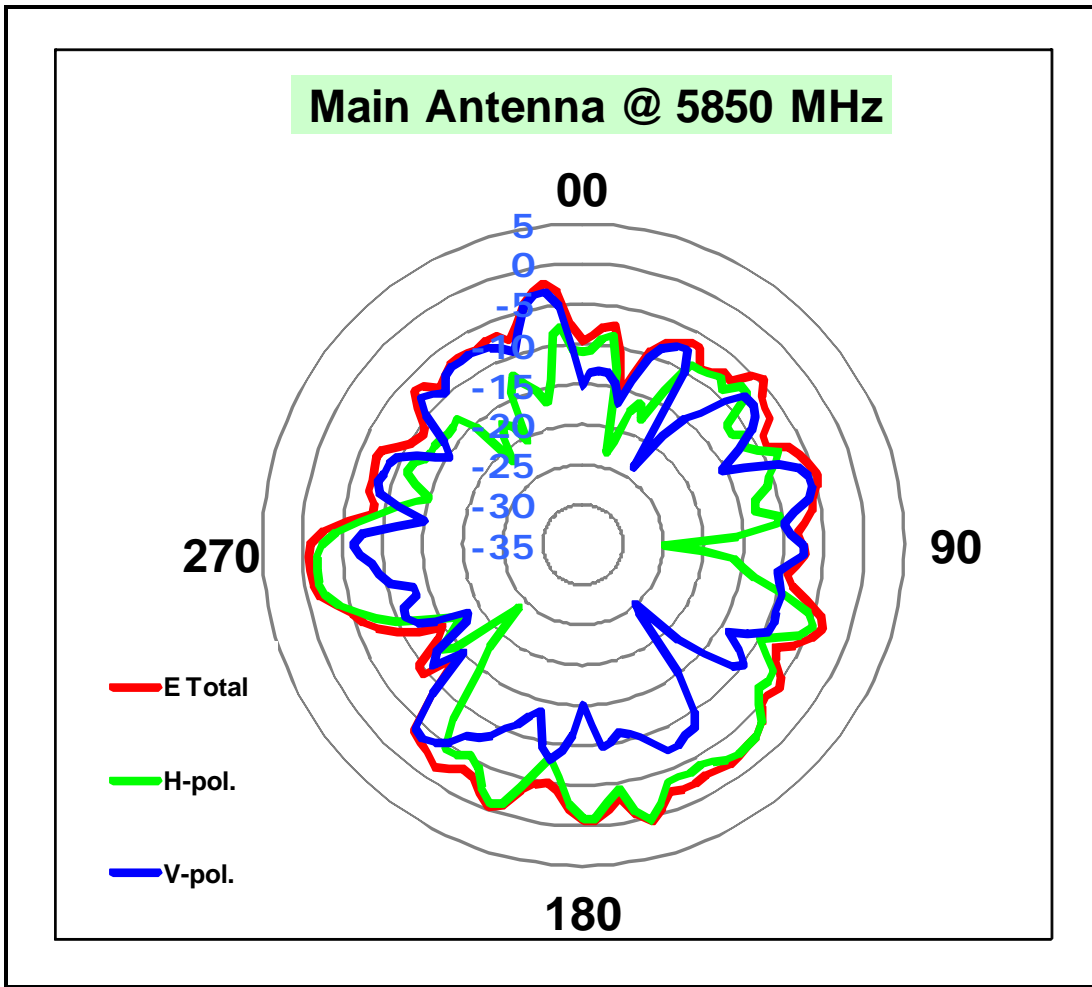
Horizontal peak	-0.19 dBi	178 deg
Vertical peak	-3.55 dBi	88 deg

Main antenna: 5785 MHz



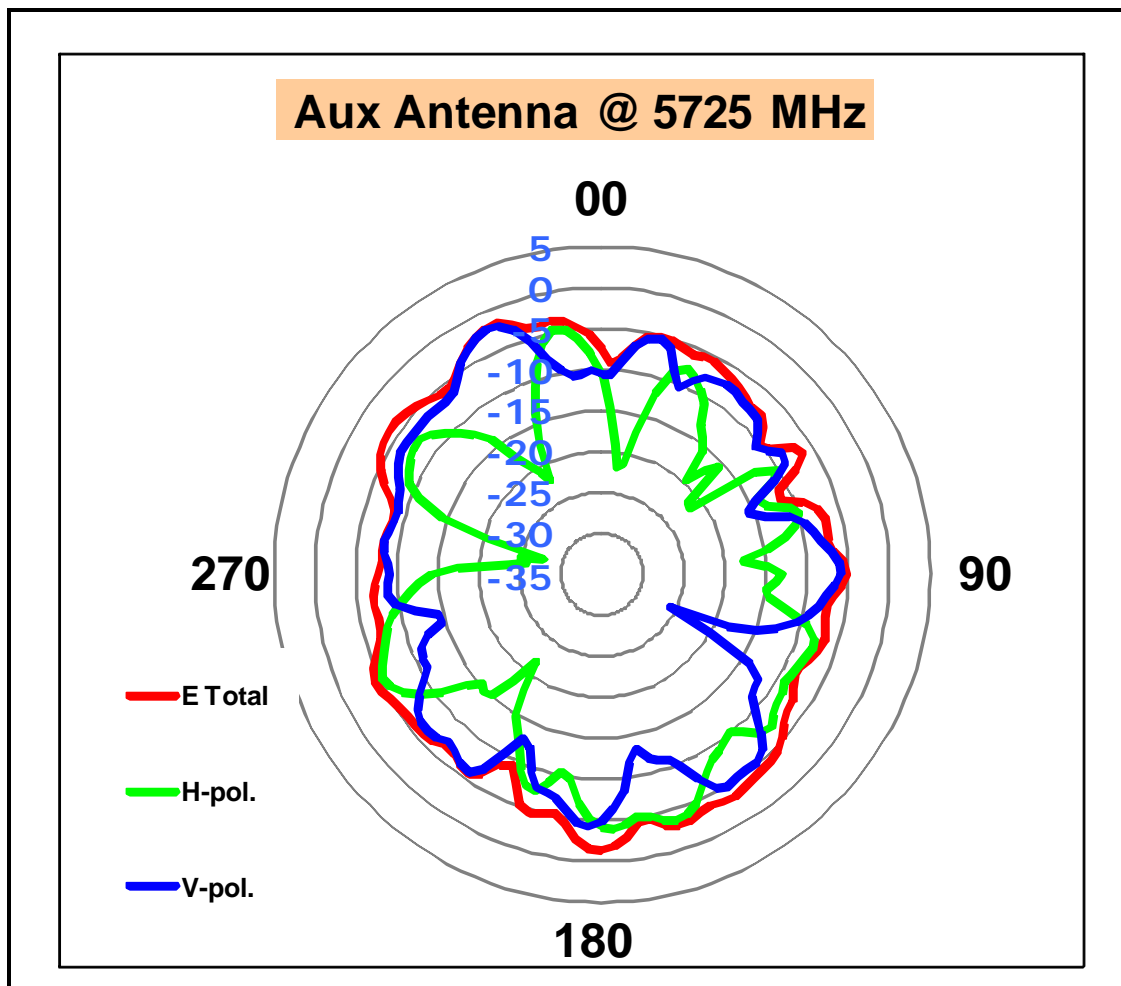
Horizontal peak	0.54 dBi	181 deg
Vertical peak	-3.30 dBi	225 deg

Main antenna: 5850 MHz



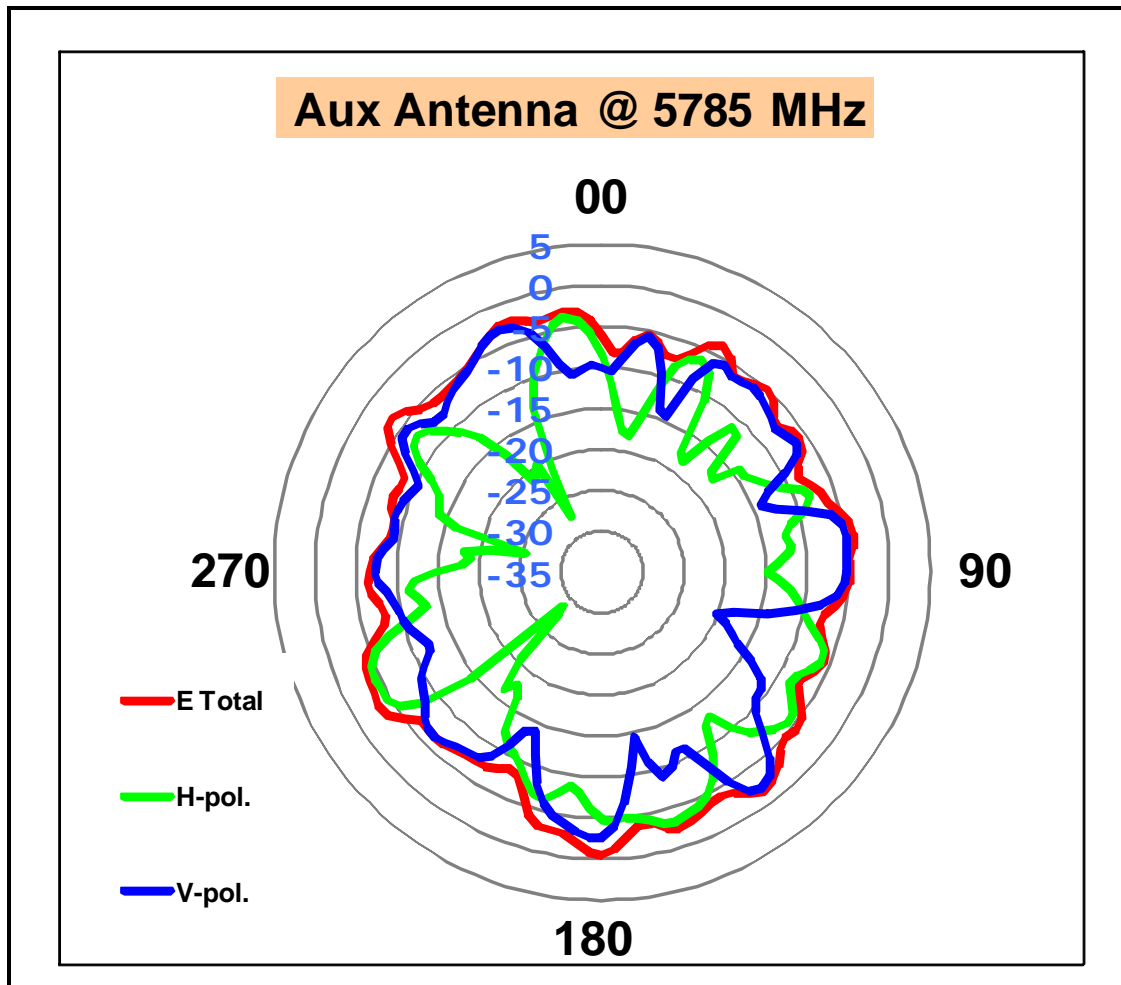
Horizontal peak	0.35 dBi	169 deg
Vertical peak	-3.21 dBi	351 deg

Auxiliary antenna: 5725 MHz



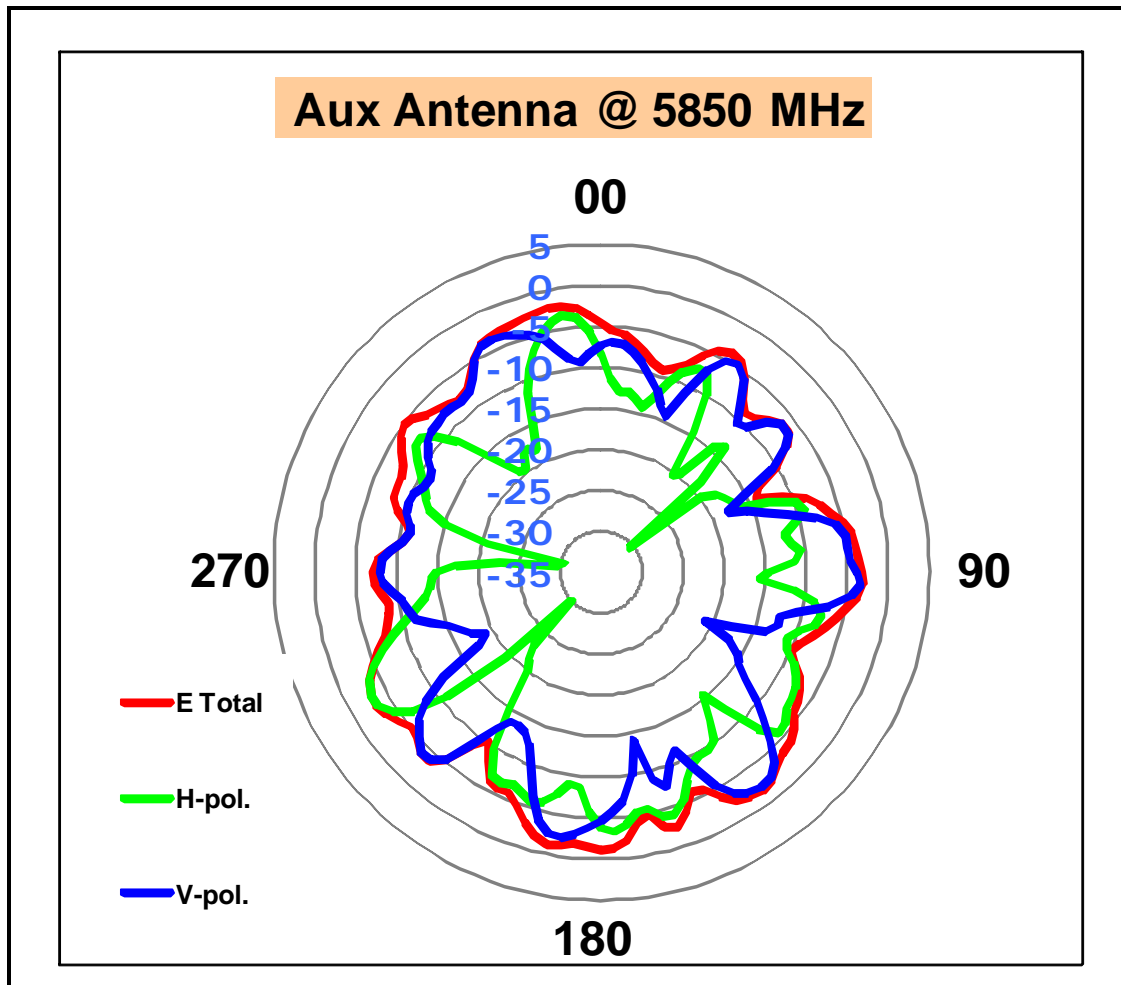
Horizontal peak	-3.52 dBi	161 deg
Vertical peak	-2.05 dBi	362 deg

Auxiliary antenna: 5785 MHz



Horizontal peak	-3.27 dBi	171 deg
Vertical peak	-2.13 dBi	159 deg

Auxiliary antenna: 5850 MHz



Horizontal peak	-3.19 dBi	241 deg
Vertical peak	-2.09 dBi	136 deg